

AMENDMENTS TO THE CLAIMS:

1. (Currently amended) A permanent magnet alternator comprising:
a stator including a stator body and a plurality of spaced stator poles projecting inwardly from said stator body;
a winding circuit wound through the spaces between said plurality of stator poles,
a rotor assembly mounted for rotation within said stator body, said rotor assembly including a rotor body having a first rotor body section with an outer circumferential surface and a second rotor body section with an outer circumferential surface;
a plurality of permanent magnets fixedly mounted on ~~an~~ said outer circumferential surfaces of said first and said second rotor body sections, said plurality of permanent magnets mounted in alternating polarity; and
~~retaining means for reducing the effects of centrifugal motion of said rotor body during operation of said alternator, said retaining means being positioned between said plurality of permanent magnets and said stator poles.~~
2. (Original) The permanent magnet alternator as defined by claim 1, wherein said retaining means comprises a cylindrical sleeve.
3. (Original) The permanent magnet alternator as defined by claim 2, wherein said cylindrical sleeve comprises a non-ferromagnetic material.
4. (Original) The permanent magnet alternator as defined by claim 3, wherein said non-ferromagnetic material is stainless steel.
5. (Currently amended) The permanent magnet alternator as defined by claim 1, wherein said rotor body comprises ~~a non-ferromagnetic material and said outer circumferential surface of said rotor body comprises~~ a ferromagnetic material.
6. (Currently amended) The permanent magnet alternator as defined by claim 5, wherein said ~~non-ferromagnetic material is aluminum and said~~ ferromagnetic material is steel.
7. (Original) The permanent magnet alternator as defined by claim 1, wherein said winding circuit is a multiphase winding circuit.

8. (Original) The permanent magnet alternator as defined by claim 7, wherein said multiphase winding circuit is a three phase winding circuit.

9. (Original) The permanent magnet alternator as defined by claim 1, wherein said rotor assembly includes a first rotor body and a second rotor body.

10. (Currently amended) A permanent magnet alternator comprising:
a stator assembly including a stator body and a plurality of spaced stator poles projecting inwardly from said stator body;
a winding circuit wound through the spaces between said plurality of stator poles;
a rotor assembly mounted for rotation within said stator body, said rotor assembly including a rotor body and a plurality of fan-like projections spaced equidistant along said rotor body, said rotor body including a first rotor body section and a second rotor body section positioned in abutment to form an enclosed hollow cavity;
a plurality of permanent magnets fixedly mounted on an outer circumferential surface of said rotor body in alternating polarity; ~~and~~
~~retaining means for reducing the effects of centrifugal motion of the rotor body during operation of said alternator, said retaining means being positioned between said plurality of permanent magnets and said stator poles,~~
~~wherein each of said fan-like projections project outwardly from said rotor body along a plane lying substantially parallel relative to an outer surface of said rotor body so as to reduce the ambient temperature within said alternator during rotation of said rotor body.~~

11.-16. (Cancelled)

17. (New) The permanent magnet alternator as defined in claim 1, wherein said first and said second rotor body sections are C-shaped in cross-section and positioned in opposing abutment to form a closed hollow cavity.

18. (New) The permanent magnet alternator as defined in claim 1, wherein each of said plurality of magnets is attached to both of said outer circumferential surfaces.